This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1	1 (currently amended): A nucleic acid-lipid particle composition for introducing
2	a nucleic acid into a cell, said particle composition comprising:
3	(a) a nucleic acid-lipid particle comprising a cationic lipid, a conjugated lipid that
4	inhibits aggregation of particles, a nucleic acid; and
5	(b) an endosomal membrane destabilizer, wherein said endosomal membrane
6	destabilizer is Ca ⁺⁺ ion.
1	2 (original): The nucleic acid-lipid particle composition of claim 1, wherein said
2	endosomal membrane destabilizer is outside said nucleic acid-lipid particle.
1	3 (original) The nucleic acid-lipid particle composition of claim 1, wherein said
2	endosomal membrane destabilizer is both outside and inside said nucleic acid-lipid particle.
	4 (cancelled)
	5 (withdrawn)
1	6 (original): The nucleic acid-lipid particle composition of claim 5, wherein the
2	concentration of Ca ⁺⁺ ion is from about 1 mM to about 20 mM.
1	7 (original): The nucleic acid-lipid particle composition of claim 1, wherein said
2	particle has a median diameter of less than about 150 nm.
1	8 (original): The nucleic acid-lipid particle composition of claim 1, wherein said
2	cationic lipid is a member selected from the group consisting of N,N-dioleyl-N,N-
3	dimethylammonium chloride (DODAC), N,N-distearyl-N,N-dimethylammonium bromide
4	(DDAB), N-(1-(2,3-dioleoyloxy)propyl)-N,N,N-trimethylammonium chloride (DOTAP), N-(1-

has at least 4 positive charges at a selected pH.

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(2,3-dioleyloxy)propyl)-N,N,N-trimethylammonium chloride (DOTMA), and N,N-dimethyl-2,3-5 dioleyloxy)propylamine (DODMA), and combinations thereof. 6 9 (original): The nucleic acid-lipid particle composition of claim 1, wherein said 1 particle further comprises an additional noncationic lipid. 2 10 (original): The nucleic acid-lipid particle composition of claim 9, wherein 1 said noncationic lipid is selected from the group consisting of DOPE, POPC, and EPC. 2 11 (original): The nucleic acid-lipid particle composition of claim 1, wherein 1 said particle comprises a functional group that facilitates Ca⁺⁺ ion chelation. 2 12 (original): The nucleic acid-lipid particle composition of claim 1, wherein 1 said conjugated lipid that inhibits aggregation of particles has the formula 2 A----Y I 3 wherein: 4 A is a lipid moiety; 5 W is a hydrophilic polymer; and 6 Y is a polycationic moiety. 7 13 (original): The nucleic acid-lipid particle composition of claim 12, wherein W 1 is a polymer selected from the group consisting of PEG, polyamide, polylactic acid, polyglycolic 2 acid, polylactic acid/polyglycolic acid copolymers and combinations thereof, said polymer 3 having a molecular weight of about 250 to about 7000 daltons. 4

14 (original): The nucleic acid-lipid particle composition of claim 12, wherein Y

1 15 (original): The nucleic acid-lipid particle composition of claim 12, wherein Y
2 is a member selected from the group consisting of lysine, arginine, asparagine, glutamine,
3 derivatives thereof and combinations thereof.

1 16 (original): The nucleic acid-lipid particle composition of claim 12, wherein A
2 is a member selected from the group consisting of a diacylglycerolyl moiety, a dialkylglycerolyl
3 moiety, a N-N-dialkylamino moiety, a 1,2-diacyloxy-3-aminopropane moiety and a 1,2-dialkyl4 3-aminopropane moiety.

1 (original): The nucleic acid-lipid particle composition of claim 12, wherein W is PEG.

18 (withdrawn)

1 19 (original): The nucleic acid-lipid particle composition of claim 12, wherein W 2 has a molecular weight of about 250 to about 2000 daltons.

20 (original): The nucleic acid-lipid particle composition of claim 17, having the general structure of Formula II:

$$A - (CH_2 - CH_2 - O)_n - Z - Y$$

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4 wherein

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X is a member selected from the group consisting of a single bond or a functional group covalently attaching said lipid to at least one ethylene oxide unit;

Z is a member selected from the group consisting of a single bond or a functional group covalently attaching said at least one ethylene oxide unit to a cationic group; and n is an integer having a value of between about 6 to about 50.

1	21 (original): The nucleic acid-lipid particle composition of claim 20, wherein
2	X is a member selected from the group consisting of a single bond,
3	phosphatidylethanolamino, phosphatidylethanolamido, phosphoro, phospho,
4	phosphoethanolamino, phosphoethanolamido, carbonyl, carbamate, carboxyl, carbonate, amido,
5	thioamido, oxygen, sulfur and NR, wherein R is a hydrogen or alkyl group.
1	22 (original): The nucleic acid-lipid particle composition of claim 20, wherein
2	Z is a member selected from the group consisting of a single bond,
3	phosphatidylethanolamino, phosphatidylethanolamido, phosphoro, phospho,
4	phosphoethanolamino, phosphoethanolamido, carbonyl, carbamate, carboxyl, carbonate, amido,
5	thioamido, oxygen, sulfur and NR, wherein R is a hydrogen or alkyl group.
1	23 (original): The nucleic acid-lipid particle composition of claim 20, wherein
2	A is a diacylglycerolyl moiety;
3	X is phosphoethanolamido;
4	Z is NR, wherein R is a hydrogen atom; and
5	Y is a member selected from the group consisting of about 1 to about 10 basic
6	amino acids or derivatives thereof.
1	24 (original): The nucleic acid-lipid particle composition of claim 23, wherein
2	A is a diacylgercerolyl moiety having 2 fatty acyl chains, wherein each acyl chain
3	is independently between 2 and 30 carbons in length and is either saturated or has varying
4	degrees of saturation.
1	25 (original): The nucleic acid-lipid particle composition of claim 23, wherein
2	Y is a member selected from the group consisting of lysine, arginine, asparagine,
3	glutamine, derivatives thereof and combinations thereof.
1	26 (original). The nucleic acid-lipid particle composition of claim 23, wherein

2	A is a diacylgercerolyl moiety having 2 fatty acyl chains, wherein each acyl chain
3	is a saturated C-18 carbon chain; and
4	Y is a cationic group having 4 lysine residues or derivatives thereof.
1	27 (original): The nucleic acid-lipid particle composition of claim 1, wherein
2	said conjugated lipid that inhibits aggregation of particles is a PEG-lipid.
1	28 (original): The nucleic acid-lipid particle composition of claim 27, wherein
2	said PEG-lipid is PEG-ceramide.
1	29 (original): The nucleic acid-lipid particle composition of claim 28, wherein
2	the ceramide of said PEG-ceramide comprises a fatty acid group having about 8 to about 20
3	carbon atoms.
1	30 (original): The nucleic acid-lipid particle composition of claim 28, wherein
2	said PEG-lipid is PEG-phosphatidylethanolamine.
	31 (withdrawn)
1	32 (original): The nucleic acid-lipid particle composition of claim 1, wherein
2	said nucleic acid is selected from the group consisting of a plasmid, an antisense oligonucleotide,
3	and a ribozyme.
1	33 (currently amended): A method of introducing a nucleic acid into a cell, said
2	method comprising:
3	contacting said cell with a nucleic acid-lipid particle composition, said particle
4	composition comprising:
5	(a) a nucleic acid-lipid particle comprising a cationic lipid, a conjugated lipid that
6	inhibits aggregation of particles, and a nucleic acid; and
7	(b) an endosomal membrane destabilizer, wherein said endosomal membrane
8	destabilizer is Ca ⁺⁺ ion.

1	34 (original): The method of introducing a nucleic acid into a cell of claim 33,
2	wherein said endosomal membrane destabilizer is outside said nucleic acid-lipid particle.
1	35 (original): The method of introducing a nucleic acid into a cell of claim 33,
2	wherein said endosomal membrane destabilizer is Ca ⁺⁺ ion.
	36 (withdrawn)
1	37 (original): The method of introducing a nucleic acid into a cell of claim 36,
2	wherein the concentration of Ca ⁺⁺ ion is from about 1 mM to about 20 mM.
1	38 (original): The method of introducing a nucleic acid into a cell of claim 33,
2	wherein said particle has a median diameter of less than about 150 nm.
1	39 (original): The method of introducing a nucleic acid into a cell of claim 33,
2	wherein said cationic lipid is a member selected from the group consisting of N,N-dioleyl-N,N-
3	dimethylammonium chloride (DODAC), N,N-distearyl-N,N-dimethylammonium bromide
4	(DDAB), N-(1-(2,3-dioleoyloxy)propyl)-N,N,N-trimethylammonium chloride (DOTAP), N-(1-
5	(2,3-dioleyloxy)propyl)-N,N,N-trimethylammonium chloride (DOTMA), and N,N-dimethyl-2,3-
6	dioleyloxy)propylamine (DODMA), and combinations thereof.
1 2	40 (original): The method of introducing a nucleic acid into a cell of claim 33, wherein said particle further comprises an additional noncationic lipid.
1	41 (original): The method of introducing a nucleic acid into a cell of claim 40,
2	wherein said noncationic lipid is selected from the group consisting of DOPE, POPC, and EPC.
1 2	42 (original): The method of introducing a nucleic acid into a cell of claim 33, wherein said particle comprises a functional group that facilitates Ca ⁺⁺ ion chelation.

43 (original): The method of introducing a nucleic acid into a cell of claim 33, 1 2 wherein said conjugated lipid that inhibits aggregation of particles has the formula A----Y I 3 wherein: 4 A is a lipid moiety; 5 W is a hydrophilic polymer; and 6 7 Y is a polycationic moiety. 44 (original): The method of introducing a nucleic acid into a cell of claim 43, 1 wherein W is a polymer selected from the group consisting of PEG, polyamide, polylactic acid, 2 3 polyglycolic acid, polylactic acid/polyglycolic acid copolymers and combinations thereof, said polymer having a molecular weight of about 250 to about 7000 daltons. 4 45 (original): The method of introducing a nucleic acid into a cell of claim 43, 1 2 wherein Y has at least 4 positive charges at a selected pH. 46 (original): The method of introducing a nucleic acid into a cell of claim 43, 1 wherein Y is a member selected from the group consisting of lysine, arginine, asparagine, 2 glutamine, derivatives thereof and combinations thereof. 3 1 47 (original): The method of introducing a nucleic acid into a cell of claim 43, 2 wherein A is a member selected from the group consisting of a diacylglycerolyl moiety, a dialkylglycerolyl moiety, a N-N-dialkylamino moiety, a 1,2-diacyloxy-3-aminopropane moiety 3 4 and a 1,2-dialkyl-3-aminopropane moiety. 48 (original): The method of introducing a nucleic acid into a cell of claim 43, 1 2 wherein W is PEG.

49 (withdrawn)

- 1 50 (original): The method of introducing a nucleic acid into a cell of claim 43,
- wherein W has a molecular weight of about 250 to about 2000 daltons.
- 1 51 (original): The method of introducing a nucleic acid into a cell of claim 48,
- 2 having the general structure of Formula II:

$$A - \left(X - (CH_2 - CH_2 - O)_n - Z\right) - Y$$

3 II

- 4 wherein
- X is a member selected from the group consisting of a single bond or a functional group covalently attaching said lipid to at least one ethylene oxide unit;
- Z is a member selected from the group consisting of a single bond or a functional
 group covalently attaching said at least one ethylene oxide unit to a cationic group; and
- 9 n is an integer having a value of between about 6 to about 50.
- 1 52 (original): The method of introducing a nucleic acid into a cell of claim 51,
- 2 wherein
- 3 X is a member selected from the group consisting of a single bond,
- 4 phosphatidylethanolamino, phosphatidylethanolamido, phosphoro, phospho,
- 5 phosphoethanolamino, phosphoethanolamido, carbonyl, carbamate, carboxyl, carbonate, amido,
- 6 thioamido, oxygen, sulfur and NR, wherein R is a hydrogen or alkyl group.
- 1 53 (original): The method of introducing a nucleic acid into a cell of claim 51,
- 2 wherein
- Z is a member selected from the group consisting of a single bond,
- 4 phosphatidylethanolamino, phosphatidylethanolamido, phosphoro, phospho,

phosphoethanolamino, phosphoethanolamido, carbonyl, carbamate, carboxyl, carbonate, amido, 5 6 thioamido, oxygen, sulfur and NR, wherein R is a hydrogen or alkyl group. 1 54 (original): The method of introducing a nucleic acid into a cell of claim 51. 2 wherein 3 A is a diacylglycerolyl moiety; 4 X is phosphoethanolamido; 5 Z is NR, wherein R is a hydrogen atom; and 6 Y is a member selected from the group consisting of about 1 to about 10 basic 7 amino acids or derivatives thereof. 1 55 (original): The method of introducing a nucleic acid into a cell of claim 54, 2 wherein 3 A is a diacylgercerolyl moiety having 2 fatty acyl chains, wherein each acyl chain is independently between 2 and 30 carbons in length and is either saturated or has varying 4 5 degrees of saturation. 1 56 (original): The method of introducing a nucleic acid into a cell of claim 54. 2 wherein 3 Y is a member selected from the group consisting of lysine, arginine, asparagine. 4 glutamine, derivatives thereof and combinations thereof. 1 57 (original): The method of introducing a nucleic acid into a cell of claim 54, 2 wherein 3 A is a diacylgercerolyl moiety having 2 fatty acyl chains, wherein each acyl chain 4 is a saturated C-18 carbon chain; and 5 Y is a cationic group having 4 lysine residues or derivatives thereof. 1 58 (original): The method of introducing a nucleic acid into a cell of claim 33, 2 wherein said conjugated lipid that inhibits aggregation of particles is a PEG-lipid.

1	59 (original): The method of introducing a nucleic acid into a cell of claim 58,
2	wherein said PEG-lipid is PEG-ceramide.
1	60 (original): The method of introducing a nucleic acid into a cell of claim 59,
2	wherein the ceramide of said PEG-ceramide comprises a fatty acid group having about 8 to about
3	20 carbon atoms.
1	61 (original): The method of introducing a nucleic acid into a cell of claim 59,
2	wherein said PEG-lipid is PEG-phosphatidylethanolamine.
1	62 (original): The method of introducing a nucleic acid into a cell of claim 33,
2	wherein said conjugated lipid that inhibits aggregation of particles is an ATTA-lipid.
1	63 (original): The method of introducing a nucleic acid into a cell of claim 33,
2	wherein said nucleic acid is selected from the group consisting of a plasmid, an antisense
3	oligonucleotide, and a ribozyme.
	64 (withdrawn)
	65 (withdrawn)
	66 (withdrawn)
	67 (withdrawn)
	68 (cancelled)